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**Kamen et al.**(10) **Pub. No.: US 2021/0231116 A1**(43) **Pub. Date: Jul. 29, 2021**(54) **PUMPING FLUID DELIVERY SYSTEMS AND METHODS USING FORCE APPLICATION ASSEMBLY**(71) Applicant: **DEKA Products Limited Partnership**,  
Manchester, NH (US)(72) Inventors: **Dean Kamen**, Bedford, NH (US);  
**Larry Brian Gray**, Merrimack, NH (US); **Eric Yeaton**, Epsom, NH (US)(21) Appl. No.: **17/227,892**(22) Filed: **Apr. 12, 2021****Related U.S. Application Data**

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(57)

**ABSTRACT**

A method of dispensing a therapeutic fluid from a line includes providing an inlet line connectable to an upstream fluid source. The inlet line is in downstream fluid communication with a pumping chamber. The pumping chamber has a pump outlet. The method also includes actuating a force application assembly so as to restrict retrograde flow of fluid through the inlet while pressurizing the pumping chamber to urge flow through the pump outlet. A corresponding system employs the method.

